

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6721299".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L2	2	adaptive adj searcher and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L3	17	adaptive adj searcher	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L4	69	adaptive with (searcher or (path adj search)) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L5	26	(feedback and ((path adj search) or searcher)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L6	5	(feedback and ((path adj search) or searcher) and (multipath or (multi adj path))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L7	1428	pilot adj symbol	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L8	4090	channel adj estimation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L9	731	L7 and L8	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38

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L10	736	375/144	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L11	45	L9 and L10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L12	1468	375/148	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L13	5783	(path adj search) or searcher	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L14	1428	pilot adj symbol	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L15	4090	channel adj estimation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L16	86	L13 and L14 and L15	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L17	837	375/149	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L18	2692	375/130	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L19	2288	370/441	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L20	2023	370/442	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38

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L21	0	L16 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L22	1767	path adj search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L23	31233	spread adj spectrum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L24	2075	pilot adj symbol	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L25	4090	channel adj estimation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L26	1428	pilot adj symbol	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L27	4090	channel adj estimation	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L28	67309	weighting	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L29	380	L26 and L28	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:38
L30	0	despread\$3 with cophas\$3 with demodulat\$3 with remdulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L31	9028	(searcher or (path adj search\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38

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L32	556	(searcher or (path adj search\$2)) with cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L33	0	"EP1158708"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L34	32871	first adj ((path search) or searcher)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L35	996	first adj ((path search) or searcher) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L36	784	second adj ((path search) or searcher) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L37	70	second adj ((path search) or searcher) same cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L38	31	second adj ((path search) or searcher) with cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L39	31	(second adj ((path search) or searcher) with pilot) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38

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L40	1	despread\$3 with cophas\$3 with demodulat\$3 with remodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L41	1	(despread\$3 or (de adj spread\$3)) with (demodulat\$3 or (de adj modulat\$3)) with (remodulat\$3 or (re adj modulat\$3)) and (searcher or (path adj search\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L42	8	L17 and L16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L43	14	L18 and L16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L44	10	L19 and L16	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:38
L45	9	"2260227"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L46	70	search\$3 with feedback and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L47	20	(searcher or (path adj search\$3)) with feedback and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38
L48	6	norio.in. and morihiko.in. and satoshi.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:38

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L49	51	"63677"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L50	37	(searcher or (path adj search\$3)) same feedback and cdma and pilot and information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L51	36	feedback same searcher AND cdma AND pilot AND information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L52	39	feedback same (searcher or (path with search)) AND cdma AND pilot AND information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L53	20	feedback same (searcher or (path with search)) AND channel adj estimation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L54	2	"5283811".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L55	17	((feedback or iterative) with (searcher or path with search)) AND cdma AND pilot AND information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L56	42	((feedback or iterative or adaptive) with (searcher or path with search)) AND cdma AND pilot AND information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39

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L57	89	((feedback or iterative or adaptive) same (searcher or path with search)) AND cdma AND pilot AND information	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L58	8	first adj path adj searcher	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L59	4	second adj path adj searcher	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L60	5	(despread\$3 or (de adj spread\$3)) with demodulat\$3 with remodulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L61	11	(despread\$3 or (de adj spread\$3)) with (demodulat\$3 or (de adj modulat\$3)) with (remodulat\$3 or (re adj modulat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L62	2	L32 and (co adj phas\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L63	63	(despread\$3 or (de adj spread\$3)) with (demodulat\$3 or (de adj modulat\$3)) with (remodulat\$3 or (re adj modulat\$3) or modulat\$3) and (searcher or (path adj search\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L64	3	(despread\$3 or (de adj spread\$3)) with (demodulat\$3 or (de adj modulat\$3)) with (remodulat\$3 or (re adj modulat\$3) or modulat\$3) and (searcher or (path adj search\$2)) and ((feed adj back) or feedback)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39

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L65	2	"20050111487".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L66	2	"6721299".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L67	21	"1158708"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L68	46	(second adj ((path search) or searcher) same pilot) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L69	34	second adj ((path adj search) or searcher) and cdma	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L70	2	"6721299".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L71	137	L22 and L23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:39
L72	213	L27 and L29	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:39
L73	257	L25 with L24	US-PGPUB; USPAT; USOCR	OR	OFF	2006/02/27 11:39

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L74	751	"korean patent publication"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/27 11:39
L75	2	"5719899".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L76	2	"6430166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L77	2	"6389574".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L78	2	"20050195915".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L79	2	"6498805".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L80	2	"20040234003".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L81	2	"6185258".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39

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L82	2	"20030210667".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L83	2	"6411643".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:39
L84	335	(feedback and ((path adj search) or searcher) and (multipath or (multi adj path)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:51
L85	2	"5764687".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:52
L86	2	"6370397".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:54
L87	2	"5109390".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:55
L88	2	"5691974".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:57
L89	2	"5577025".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:57

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L90	2	"6233456".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:58
L91	2	"5835847".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 11:59
L92	2	"5943606".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:00
L93	2	"5945948".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:02
L94	2	"6147981".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:03
L95	3	"5673259".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:05
L96	3	"6731622".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/27 12:05

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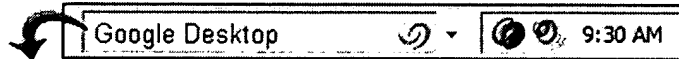
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- ☐ 1. [MULTIPATH PROPAGATION DELAY DETERMINING MEANS USING PERIODICALLY INSERTED PILOT SYMBOLS](#)
FRANK, Georg / SCHULIST, Mathias / GRANZOW, Wolfgang / MAURER, Alexander / POPOVIC, Branislav / TELEFONAKTIEBOLAGET LM ERICSSON (publ), PATENT COOPERATION TREATY APPLICATION, Dec 1999
 ...and J. Levin: I'Multipath Search Processor...has a number of **pilot** symbols PS2 which...channel. If the **pilot** symbols are not contained, the **searchers** must examine...a continuous **pilot** signal is inserted...on a decision **feedback**. Prior Art Searching...uses multiple **searcher** elements working...
Full text available at patent office. For more in-depth searching go to  LexisNexis™
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- ☐ 2. [MOBILE STATION ASSISTED TIMING SYNCHRONIZATION IN A CDMA COMMUNICATION SYSTEM](#)
WHEATLEY, Charles, E., III / TIEDEMANN, Edward, G., Jr. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jul 1999
 ...time the output of its **searcher** PN code generators. The...including the priority of the **pilot**, the speed of the searching...anticipated delay spread of the **multipath** arrivals. The CDMA standards...over window "R". The **searcher** window sizes are provided...station to search for a **pilot** 128 PN chips ahead of...
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- ☐ 3. [MOBILE STATION ASSISTED TIMING SYNCHRONIZATION IN A CDMA COMMUNICATION SYSTEM](#)
WHEATLEY, Charles, E., III / TIEDEMANN, Edward, G., Jr. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Apr 1999
 ...time the output of its **searcher** PN code generators. The...including the priority of the **pilot**, the speed of the searching...anticipated delay spread of the **multipath** arrivals. The CDMA standards...over window "R". The **searcher** window sizes are provided...station to search for a **pilot** 128 PN chips ahead of...
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SCHERZER, Shimon, B. / ADAPTIVE TELECOM, INC., PATENT COOPERATION TREATY APPLICATION, Mar 1999

...of arrival of the **multipath** signal parts) to...information is to use **feedback** from the subscriber. The required **feedback** rates, however...capitalizing on signal **multipath** structures. A method...between traffic and **pilot** beams to prevent...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **5. Transmit Diversity Schemes for CDMA-2000** [PDF-18K]

Sep 1999

...Ideally, the rate of **feedback** should be matched...is zero and the **feedback** channel error rate...a variable rate **feedback** scheme is complicated...time difference in **multipath** arrivals from each...causing an increase in **searcher** hardware at the...despread by the **pilot** sequence to obtain...

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☐ **6. DOT PRODUCT CIRCUIT FOR MULTIPATH RECEIVERS**

WEAVER, Lindsay, A., Jr. / QUALCOMM INCORPORATED, EUROPEAN PATENT, Sep 1995


...receiver 12 may comprise **multipath** propagations of a same **pilot** and corresponding data...receiver 14, certain **multipath** propagations of the...signal, as selected by a **searcher** receiver 14a in combination...components for each of the **pilot** signal and the data...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **7. RAKE RECEIVER ARCHITECTURE FOR A MOBILE DEMODULATOR USED IN A CDMA COMMUNICATION SYSTEM**

EASTON, Kenneth, D. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jan 1997

...plurality of fingers 12a-c and a **searcher** 14. The **searcher** 14 searches out windows of offsets likely to contain **multipath** signal peaks suitable for...in the search window, the **searcher** 14 reports the **pilot** energy it found at that...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **8. SEARCH WINDOW DELAY TRACKING IN CODE DIVISION MULTIPLE ACCESS COMMUNICATION SYSTEMS**

POPOVIĆ / Cacute / , Branislav / FRANK, Georg / SCHULIST, Matthias / KLANG, Gö / ran / TELEFONAKTIEBOLAGET LM ERICSSON (publ), PATENT COOPERATION TREATY APPLICATION, Nov 1999


...communications system. The **multipath** search processor...herein as simply "**searcher**") used in accordance...delays of various **multipath** components. The **searcher** also tracks changing...associated with one of the **multipaths** to adjust the extracted...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **9. LOCATION OF A MOBILE STATION USING A PLURALITY OF COMMERCIAL WIRELESS INFRASTRUCTURES**


LEBLANC, Frederick, W. / DuPRAY, Dennis, Jay / KARR, Charles, L. / LEBLANC, Frederick, W., PATENT COOPERATION TREATY APPLICATION, Mar 1998


...never be below -108 dBm, in order to maintain the quality standard. Is Additionally the short term fast signal fading due to **multipath** propagation is taken into account by deploying fast fading margin Lt., which is typically also chosen to be a few percentiles...

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- ☐ **10. DIVERSITY RECEIVER IN A CDMA CELLULAR TELEPHONE SYSTEM**
GILHOUSEN, Klein, S. / PADOVANI, Roberto / WHEATLEY, Charles, E., III / QUALCOMM, INC., PATENT COOPERATION TREATY APPLICATION, May 1991
...Furthermore the effect of **multipath** fading can be reduced...invention. The existence of **multipaths** can provide path diversity...exhibit independence in **multipath** fading, i.e., they usually...special receiver, called a **searcher** receiver, which constantly...cell-site transmits a "**pilot** carrier" signal. This...
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- ☐ **11. Method and apparatus for operating an indoor CDMA telecommunications system**
Honkasalo, Harri / Honkasalo, Zhi-Chun / Sunay, Oguz / Ma, Lin / Nokia Corporation, EUROPEAN PATENT, Sep 1998
...a building showing the various sources of interference and **multipath**, as well as interference from two different outdoor base stations...showing the various sources and causes of interference and **multipath** Figure 15 is a block diagram of a indoor base station transmitter...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ☐ **12. DOT PRODUCT CIRCUIT FOR MULTIPATH RECEIVERS**
WEAVER, Lindsay, A., Jr. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jun 1994
...may be comprised of **multipath** propagations of a same **pilot** and corresponding data...receiver 14 certain **multipath** propagations of the...signal, as selected by a **searcher** receiver 14a- in combination...components for each of the **pilot** signal and the data...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ☐ **13. An Asynchronous Multiuser CDMA Detector Based On The Kalman Filter - Selected Areas in Communications, IEEE Journal on [PDF-45K]**
Sep 1999
...assumes that delay estimation is handled by a separate **multipath searcher** and delay lock loop. Channel estimation may also be...of the state vector , we end up with (12) 3 In the **multipath** scenario there are a maximum of of these. 1714 IEEE...
[http://www.itr.unisa.edu.au/itrusers/lars/public_html/...]
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- ☐ **14. METHOD AND APPARATUS FOR USING FULL SPECTRUM TRANSMITTED POWER IN A SPREAD SPECTRUM COMMUNICATION SYSTEM FOR TRACKING...**
ZEHAVI, Ephraim / CARTER, Stephen, S. / GILHOUSEN, Klein, S. / QUALCOMM INCORPORATED, EUROPEAN PATENT, Oct 1997
...signal carriers to share a common **pilot** signal as a phase reference...generally does not require a **pilot** signal for phase reference for...environment, the severity of **multipath** fading and resulting phase disruption...user-to-base station link, where a **pilot** signal is not typically used...
Full text available at patent office. For more in-depth searching go to  LexisNexis
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- ☐ **15. DIVERSITY RECEIVER IN A CDMA CELLULAR TELEPHONE SYSTEM**
GILHOUSEN, Klein, S. / PADOVANI, Roberto / WHEATLEY, Charles, E., III / QUALCOMM Incorporated, EUROPEAN PATENT, Sep 1992
...Furthermore, the effect of **multipath** fading can be reduced...invention. The existence of **multipaths** can provide path diversity...exhibit independence in **multipath** fading, i.e., they usually...special receiver, called a **searcher** receiver, which constantly...cell-site transmits a "**pilot** carrier" signal. This...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **16. PILOT SIGNAL STRENGTH CONTROL FOR A LOW EARTH ORBITING SATELLITE COMMUNICATIONS SYSTEM**

GILMORE, Robert, P. / THOMPSON, James, H. / QUALCOMM Incorporated, EUROPEAN PATENT, Mar 1998


...shared resource signals such as **pilot** signals in a satellite communications...beams, as well as between **multipath** signals. These codes are typically...systems using this approach, a "**pilot**" carrier signal (hereinafter referred to as a "**pilot** signal") is used as a coherent...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **17. METHOD AND APPARATUS FOR ADJACENT SERVICE AREA HANDOFF IN COMMUNICATION SYSTEMS**

SCHIFF, Leonard, N. / MILLER, David, S. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Apr 1998


...different beams, as well as between **multipath** signals. These codes are typically...techniques permit problems such as **multipath** fading to be more readily overcome...also contemplate the use of a "**pilot**" carrier signal as a coherent...station-to-user links. That is, a **pilot** signal, which typically contains...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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☐ **18. CODE ACQUISITION IN A CDMA COMMUNICATION SYSTEM USING MULTIPLE WALSH CHANNELS**

SKINNER, Gordon / HARMS, Brian / QUALCOMM INCORPORATED, EUROPEAN PATENT, Jun 1997

...as well as between **multipath** signals. These codes...this approach, a '**pilot**' carrier signal is...referred to as a '**searcher** receiver', or simply...actually acquire a **pilot** signal, the **searcher** receiver despreads **pilot** signals using a correlator...

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☐ **19. No Slide Title [PPT-84K]**
Mar 1999

...Detection with Low **Feedback** Delay (2 ms...study TM Common **Pilot** for coherent...rapidly changing **multipath** profile (call...rapidly changing **multipath** profile Improves...Performance Fast **searcher**, fast neighbor...Without TM Common **Pilot**) 10 cells x 100...With TM Common **Pilot** WP-CDMA) Relevant...

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☐ **20. SYSTEM AND METHOD FOR GENERATING SIGNAL WAVEFORMS IN A CDMA CELLULAR TELEPHONE SYSTEM**

GILHOUSEN, Klein, S. / JACOBS, Irwin, M. / PADOVANI, Roberto / WEAVER, Lindsay, A., Jr. / WHEATLEY, Charles, E., III / VITERBI, Andrew, J. / QUALCOMM Incorporated, EUROPEAN PATENT, Apr 1993

...capacity. The existence of **multipath** can provide path diversity...exhibit independence in **multipath** fading, i.e., they usually...exploit the existence of **multipath** signals, to overcome...cell-to-mobile link, **pilot**, sync, paging and voice...data receiver and a **searcher** receiver. Each modem...

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- ☐ 1. MULTIPATH PROPAGATION DELAY DETERMINING MEANS USING PERIODICALLY INSERTED PILOT SYMBOLS
FRANK, Georg / SCHULIST, Mathias / GRANZOW, Wolfgang / MAURER, Alexander / POPOVIC, Branislav / TELEFONAKTIEBOLAGET LM ERICSSON (publ), PATENT COOPERATION TREATY APPLICATION, Dec 1999
 ...and J. Levin: I'Multipath Search Processor...has a number of **pilot** symbols PS2 which...channel. If the **pilot** symbols are not contained, the **searchers** must examine...a continuous **pilot** signal is inserted...on a decision **feedback**. Prior Art Searching...uses multiple **searcher** elements working...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ 2. MOBILE STATION ASSISTED TIMING SYNCHRONIZATION IN A CDMA COMMUNICATION SYSTEM
WHEATLEY, Charles, E., III / TIEDEMANN, Edward, G., Jr. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jul 1999
 ...time the output of its **searcher** PN code generators. The...including the priority of the **pilot**, the speed of the searching...anticipated delay spread of the **multipath** arrivals. The CDMA standards...over window "R". The **searcher** window sizes are provided...station to search for a **pilot** 128 PN chips ahead of...
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Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ 4. PRACTICAL SPACE-TIME RADIO METHOD FOR CDMA COMMUNICATION CAPACITY ENHANCEMENT
SCHERZER, Shimon, B. / ADAPTIVE TELECOM, INC., PATENT COOPERATION TREATY APPLICATION, Mar 1999

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☐ 5. DOT PRODUCT CIRCUIT FOR MULTIPATH RECEIVERS

WEAVER, Lindsay, A., Jr. / QUALCOMM INCORPORATED, EUROPEAN PATENT, Sep 1995

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Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)

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...communications system. The **multipath** search processor...herein as simply "**searcher**") used in accordance...delays of various **multipath** components. The **searcher** also tracks changing...associated with one of the **multipaths** to adjust the extracted...

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☐ 9. DIVERSITY RECEIVER IN A CDMA CELLULAR TELEPHONE SYSTEM

GILHOUSEN, Klein, S. / PADOVANI, Roberto / WHEATLEY, Charles, E., III / QUALCOMM, INC., PATENT COOPERATION TREATY APPLICATION, May 1991

...Furthermore the effect of **multipath** fading can be reduced...invention. The existence of **multipaths** can provide path diversity...exhibit independence in **multipath** fading, i.e., they usually...special receiver, called a **searcher** receiver, which constantly...cell-site transmits a "**pilot** carrier" signal. This...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)

☐ 10. Method and apparatus for operating an indoor CDMA telecommunications system

Honkasalo, Harri / Honkasalo, Zhi-Chun / Sunay, Oguz / Ma, Lin / Nokia Corporation, EUROPEAN PATENT, Sep 1998

...a building showing the various sources of interference and **multipath**, as well as

interference from two different outdoor base stations...showing the various sources and causes of interference and **multipath** Figure 15 is a block diagram of a indoor base station transmitter...

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☐ **12. METHOD AND APPARATUS FOR USING FULL SPECTRUM TRANSMITTED POWER IN A SPREAD SPECTRUM COMMUNICATION SYSTEM FOR TRACKING...**

ZEHAVI, Ephraim / CARTER, Stephen, S. / GILHOUSEN, Klein, S. / QUALCOMM INCORPORATED, EUROPEAN PATENT, Oct 1997


...signal carriers to share a common **pilot** signal as a phase reference...generally does not require a **pilot** signal for phase reference for...environment, the severity of **multipath** fading and resulting phase disruption...user-to-base station link, where a **pilot** signal is not typically used...

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☐ **14. PILOT SIGNAL STRENGTH CONTROL FOR A LOW EARTH ORBITING SATELLITE COMMUNICATIONS SYSTEM**

GILMORE, Robert, P. / THOMPSON, James, H. / QUALCOMM Incorporated, EUROPEAN PATENT, Mar 1998


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☐ **16. CODE ACQUISITION IN A CDMA COMMUNICATION SYSTEM USING MULTIPLE WALSH CHANNELS**

SKINNER, Gordon / HARMS, Brian / QUALCOMM INCORPORATED, EUROPEAN

PATENT, Jun 1997


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Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)

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☐ **19. LOCATION OF A MOBILE STATION**

DUPRAY, Dennis, Jay / KARR, Charles, L. / DUPRAY, Dennis, Jay, PATENT COOPERATION TREATY APPLICATION, Mar 1998

...blockage (sometimes included in Lp). fast fading is composed of **multipath** reflections which cause: 1) delay spread 2) random phase shift...standard. Additionally the short term fast signal fading due to **multipath** propagation is taken into account by deploying fast fading...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)

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ZEHAVI, Ephraim / CARTER, Stephen, S. / GILHOUSEN, Klein, S. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jul 1996

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- ☐ **21. PILOT SIGNAL STRENGTH CONTROL FOR A LOW EARTH ORBITING SATELLITE COMMUNICATIONS SYSTEM**
GILMORE, Robert, P. / THOMPSON, James, H. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Oct 1997
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- ☐ **22. CODE ACQUISITION IN A CDMA COMMUNICATION SYSTEM USING MULTIPLE WALSH CHANNELS**
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Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **23. METHODS AND APPARATUS FOR MEASURING NONLINEAR EFFECTS IN A COMMUNICATION SYSTEM AND FOR SELECTING CHANNELS ON THE BASIS OF...**
SILBERGER, Amnon / BUTLER, Brian / SCHIFF, Leonard / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Apr 1999
...gateways, as well as between **multipath** signals. In the user terminal-to...gateways, as well as between **multipath** signals. These codes are typically...information to and from users, and **pilot** signals, those intended to...little power is allocated to the **pilot** signal, the user terminals...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
[similar results](#)
- ☐ **24. PIPELINED CELL SITE BASE STATION RECEIVER FOR MULTIPLE SPREAD SPECTRUM SIGNALS**
LEVIN, Jeffrey, A. / WERNER, David, E. / EASTON, Kenneth, D. / QUALCOMM Incorporated, EUROPEAN PATENT, Jan 1997
...therein is the use of a **pilot** carrier signal as a coherent...however, the severity of **multipath** fading with the resulting...required to transmit a **pilot** carrier signal from

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the...representative of a severe **multipath** environment. Typical...levels. The task of a **searcher** element is to identify...

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☐ **25. DETERMINATION OF FREQUENCY OFFSETS IN COMMUNICATION SYSTEMS**

KREMM, Steven, A. / SKINNER, Gordon, S. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Apr 1998


...beams, as well as between **multipath** signals. This is also...using this approach, a "pilot" carrier signal, or simply...in a manner similar to **pilot** signals. User terminals...detect the particular **pilot** signal or signals being...using various forms of **feedback** control. However, communication...

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☐ **26. RANDOM ACCESS COMMUNICATIONS CHANNEL FOR DATA SERVICES**

QUICK, Roy, F. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Nov 1996


...initializes a packet service request, requests a **searcher** reservation on the access channel, and sends...a base station, including a plurality of **searchers** and a controller for locating a free **searcher** from the plurality of **searchers** and for...

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☐ **27. METHOD AND APPARATUS FOR ADAPTIVE CLOSED LOOP POWER CONTROL USING OPEN LOOP MEASUREMENTS**

PRESCOTT, Tobin, A. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Feb 1999

...active simultaneously without **feedback** or interference from the transmitter...different frequency bands causes **multipath** fading to be independent processes...referred to as power control **feedback**. The power control **feedback** from the gateway is generally...

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☐ **28. METHOD AND APPARATUS FOR PREDICTIVE PARAMETER CONTROL WITH LOOP DELAY**

PRESCOTT, Tobin, A. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Feb 1999

...active simultaneously without **feedback** or interference from the transmitter...different frequency bands causes **multipath** fading to be independent processes...referred to as power control **feedback**. The power control **feedback** from the gateway is generally...

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☐ **29. PIPELINED CELL SITE BASE STATION RECEIVER FOR A SPREAD SPECTRUM SIGNALS**

LEVIN, Jeffrey, A. / WERNER, David, E. / EASTON, Kenneth, D. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Jul 1996


...therein is the use of a **pilot** carrier signal as a coherent...however, the severity of **multipath** fading with the resulting...required to transmit a **pilot** carrier signal from the...representative of a severe **multipath** environment. Typical...levels. The task of a **searcher** element is to identify...

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☐ **30. TIME DIVISION DUPLEX REPEATER FOR USE IN A CDMA SYSTEM**

WEAVER, Lindsay, A., Jr. / ANTONIO, Franklin, P. / DEAN, Richard, F. / QUALCOMM Incorporated, EUROPEAN PATENT, Jun 1998

...phasing characteristics of the **multipath** channel. A fade occurs when **multipath** vectors are added destructively...is transmitted through a **multipath** channel having two paths...element assignment based on **searcher** element energy levels is...

Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)

31. METHOD AND APPARATUS FOR PERFORMING CODE ACQUISITION IN A CDMA

- ☐ COMMUNICATIONS SYSTEM
SUTTON, Todd, R. / QUALCOMM INCORPORATED, EUROPEAN PATENT, Jul 1996
...implementation of the **searcher** algorithm Figure...communication system, a **pilot** signal is used to...spreading signal. In a **pilot** signal, the data...generated by a linear **feedback** shift register, the...The object of the **searcher** operation is to find...that spreads the **pilot** signal and PN generator...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **32. METHOD AND APPARATUS FOR LOCATION FINDING IN A COMMUNICATION SYSTEM**
BUFORD, Kevin, A. / REED, John, D. / ROZANSKI, Walter, J. / GHOSH, Amitava / MOTOROLA, INC., PATENT COOPERATION TREATY APPLICATION, Mar 1998
...spread spectrum (DSSS) receiver. The **searcher** 240 scans for new correlation peaks...decoded. If available, emergency **pilot** generators (such as auxiliary base...related correlation peaks in the **searcher**, and adjusting this by an offset...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®]
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- ☐ **33. METHOD AND SYSTEM FOR NON-ORTHOGONAL NOISE ENERGY BASED GAIN CONTROL**
BENDER, Paul, E. / EDMONSTON, Brian, E. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Mar 1997
...digitized information to **searcher** 304 and despreaders 306(a) - (c). **Searcher** 304 identifies any...using the associated **pilot** channel carried...identified. Additionally, **searcher** 304 configures despreader...As noted above, **feedback** loops may exist...
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- ☐ **34. METHOD AND APPARATUS FOR PERFORMING CODE ACQUISITION IN A CDMA COMMUNICATIONS SYSTEM**
SUTTON, Todd, R. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Feb 1996
...exploiting the **multipath** environment...the use of a **pilot** signal used...complex systems a **searcher** is required...implementation of the **searcher** algorithm Figure...communication system, a **pilot** signal is used...signal. In a **pilot** signal, the...by a linear **feedback** shift register...object of the **searcher** operation is...
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- ☐ **35. TIME DIVISION DUPLEX REPEATER FOR USE IN A CDMA SYSTEM**
WEAVER, Lindsay, A., Jr. / ANTONIO, Franklin, P. / DEAN, Richard, F. / QUALCOMM INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Mar 1997
...phasing characteristics of the **multipath** channel. A fade occurs when **multipath** vectors are added destructively...is transmitted through a **multipath** channel having two paths...element assignment based on **searcher** element energy, levels is...
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Feb 1999
...teleoperated platform using vehicle-based video **feedback** is no trivial matter, and can be stressful...cluttered environments, signal blockage and **multipath** reflections can quickly degrade performance...expressly flagged as such, and the find-**path search** of the path planner can be optimized...
[http://www.nosc.mil/robots/pubs/ans99_robert3.pdf]
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- ☐ **3. [Survey of ATM switch architectures](#)**
Awdeh, R.Y. / Mouftah, H.T., *Computer Networks and ISDN Systems*, Nov 1995
...noteworthy that generally speaking, internal buffering is not desirable for one or more of the following reasons [139]: In **multipath** architectures, cells may be delivered out-of-sequence. It complicates the internal design of the SEs. It complicates fault-diagnosis...
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☐ 1. A self-learning route selection scheme using multi-path searching packets in an O network

Ishii, D.; Yamanaka, N.; Sasae, I.;

[High Performance Switching and Routing, 2005. HPSR. 2005 Workshop on](#)

12-14 May 2005 Page(s):346 - 350

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